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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/536,205	- 03/27/2000	Kayla R. Klingman	6836-US	3499	
` 7	7590 10/19/2004		EXAMINER		
Thomas F Le	nihan		CHUNG, DANIEL J		
Tektronix Inc PO Box 500			ART UNIT	PAPER NUMBER	
Delivery Statio	on 50-Law		2672	<u> </u>	
Beaverton, OI	R 97077		DATE MAILED: 10/19/200)4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Analiantian Ni	14.	<u></u>			
		Application No.	Applicant(s)	`			
Office Action Communication		09/536,205	KLINGMAN ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Daniel J Chung	2672				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet w	ith the correspondence address				
THE - Exte after - If the - If NC - Failu Any	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ply within the statutory minimum of thi d will apply and will expire SIX (6) MO te, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status							
1)🖂	Responsive to communication(s) filed on 01	July 2004.					
·	This action is FINAL . 2b) This action is non-final.						
3)	,—						
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.				
Disposit	ion of Claims						
4)🖂	Claim(s) 1-6 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdra	awn from consideration.					
5)□	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-6</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/o	or election requirement.					
Applicat	ion Papers						
9)[The specification is objected to by the Examin-	er.					
10)[The drawing(s) filed on is/are: a) acc	cepted or b)☐ objected to	by the Examiner.				
	Applicant may not request that any objection to the	e drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	· ·					
11)	The oath or declaration is objected to by the E	Examiner. Note the attache	d Office Action or form PTO-152.				
Priority (under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:		§ 119(a)-(d) or (f).				
	1. Certified copies of the priority documen						
	2. Certified copies of the priority documen						
	3. Copies of the certified copies of the price	·	received in this National Stage				
* 0	application from the International Burea See the attached detailed Office action for a list	. , , ,	received				
	bee the attached detailed office action for a fis-	t of the defined copies not	receiveu.				

Attachmen	ot(s) the of References Cited (PTO-892)	1) Intensions	Summary (PTO-413)				
	ce of Draftsperson's Patent Drawing Review (PTO-948)		s)/Mail Date				
3) Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08		nformal Patent Application (PTO-152)				
гаре	er No(s)/Mail Date		 '				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

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DETAILED ACTION

Claims 1-6 are presented for examination. This office action is in response to the amendment filed on 7-1-2004.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Etheridge et al (5,986,637) in view of Sullivan et al (6,163,758).

Regarding claim 1, Etheridge et al discloses that the claimed feature of a method of operating an oscilloscope that is capable of displaying simultaneously multiple waveforms representing time evolution of a signal during respective acquisition intervals, comprising: a) acquiring [30] waveform data using a first set of acquisition parameters (See Fig 1, Fig 3); b) generating [50] a display based on the waveform data acquired in step a), in the event that the display generated in step b) includes a waveform that is visually distinct from other displayed waveforms [i.e. "anomalous signal"] (See Fig 1, Fig 3, Abstract, col 1 line 58-col 2 line14, col 3 line 5-10, col 11 line 31-62); c) selecting [57] a feature [i.e. "new pixel identifier and counter"] that

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distinguishes the visually distinct waveform from other displayed waveforms, (See Fig 1, Fig 3, Abstract, col 1 line 58-col 2 line14, col 3 line 5-10, col 11 line 31-62); d) automatically deriving [55,57] acquisition parameters that discriminate between the selected feature and other features of the displayed waveforms, (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6, col 11 line 20-col 12 line 17); e) acquiring [30] waveform data using the acquisition parameters derived in step d), and f) generating[50] a display ["new composited image"] based on the waveform data acquired in step e) (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6, col 11 line 20-col 12 line 17)

Etheridge et al does not specifically disclose that "acquiring waveform data using automatically derived acquisition parameters that discriminate between the selected feature and other features of the displayed waveform". However, such limitations are shown in the teaching of Sullivan et al. ["detecting unusual waveforms by determining new pixel counter" (step c in presented claim), then "re-rasterized the waveforms (step f in presented claim) with extra intensity or into a different color (step d, step e in presented claim)"]. (See Abstract, col 1 line1-8, col 4 line 8-col 5 line 11, col 12 line 15+) It would have been obvious to one skilled in the art to incorporate the teaching of Sullivan into the teaching of Etheridge et al, in order to "allow a user to reliably see/control input signal anomalies even when they occur only intermittently" (See col 3 line 5-16 in Etheridge, also See col 4 line 8-14 in Sullivan), thereby generating superior display accuracy for the analyzed waveform data with not complicated way of operating an oscilloscope, as such improvement is also advantageously desirable in the teaching

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of Etheridge et al for providing clear visual representation for selecting and combining various display parameters with simple and uncomplicated operation at faster processing time.

Regarding claim 2, refer to the discussion for the claim 1 hereinabove Etheridge et al discloses that step c) includes graphically defining a template that specifies the selected feature and step d) includes employing information regarding the template to derive additional acquisition parameters. (See Fig 1, Fig 3, col 12 line 9-16; Also See Fig 2, col 4 line15-col 5 line 11 in Sullivan)

Regarding claim 3, refer to the discussion for the claim 1 hereinabove Etheridge et al discloses that the oscilloscope has multiple trigger modes[20], step c) includes graphically defining a template that specifies the selected feature and step d) includes employing information regarding the template to select a trigger mode for preferentially acquiring waveforms that include the selected feature. (See Fig 1, Fig 2, Fig 3, Abstract, col 3 line 35-col 4 line 6; Also See Fig 2, col 4 line15-col 5 line 11 in Sullivan)

Regarding claim 4, refer to the discussion for the claim 1 hereinabove, Etheridge et al discloses that the template is a scalable rectangular box and step c) includes positioning and sizing the box so that it contains the selected feature. (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6; Also See Fig 2, col 4 line15-col 5 line 11 in Sullivan)

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Regarding claim 5, refer to the discussion for the claim 1 hereinabove, Etheridge et al discloses that the oscilloscope has a display screen on which the waveforms are displayed and the template is a sketch generated on the display screen. (See Fig 1, Fig 3, Abstract, col 3 line 35-col 4 line 6; Also See Fig 2, col 4 line15-col 5 line 11 in Sullivan)

Regarding claim 6, claim 6 is similar in scope to the claim 1, and thus the rejection to claim 1 hereinabove is also applicable to claim 6.

Response to Arguments/Amendments

Applicant's arguments with respect to claims 1-6 have been considered.

However, they do not overcome the previous rejections, which have been maintained.

Thus, the finality of this office action is deemed proper.

Specifically, Applicant argued that the cited references do not disclose that "selection of a feature within displayed waveforms" (See Remarks p.3 line 1-2) and "selecting a feature in displayed waveforms". (See Remarks p.3 line 7-8) However, it is noted that the features upon which applicant relies (i.e. selecting within/in displayed waveforms) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993). In fact,

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Applicant fails to specifically describe the method of "selecting a feature" in presented claims. [i.e. "user manually selects a feature of distinct waveform within displayed waveforms", "system automatically selects a feature of distinct waveform by comparing with reference waveform"...etc] Since patent office is entitled to take the broadest reasonable interpretation of any claim, in this case, the method of "detecting a new pixel in the process of defining the unusual waveforms" of Etheridge et al and Sullivan et al, can be considered as "selecting a feature" in recited claims, as broadly claimed ["selecting a feature"] by applicant. Furthermore, Applicant argued that the cited reference do not disclose that "automatically deriving acquisition parameters" and "acquiring waveform data using the derived parameters." (See Remarks p.3 line 11-12) However, Sullivan et al clearly discloses that "automatically discovering parameters of unusual waveform" and "re-rasterizing unusual waveforms with extra intensity or a different color" (See Abstract line 1-10, col 4 line 16-49)

Conclusion

Applicant's response and amendment are not persuasive and the previous grounds of rejection have been maintained. **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Chung whose telephone number is (703) 306-3419. He can normally be reached Monday-Thursday and alternate Fridays from 7:30am-5:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael, Razavi, can be reached at (703) 305-4713.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306 (Central fax)

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

djc October 14, 2004

MICHAEL RAZAVI SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2009